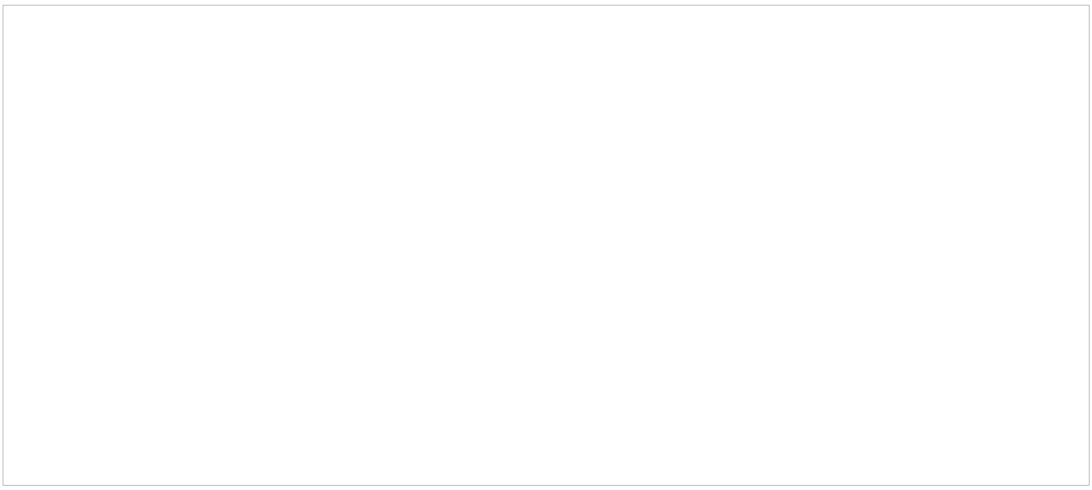
[PDF] Residential Energy: Cost Savings And Comfort For Existing Buildings

Chris Dorsi, John T Krigger - pdf download free book



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Description:

Review "This work would be an appropriate desk top reference for a wide variety of occupations..." -- *Bill Van der Meer, Weatherization Quarterly*

"provides comprehensive information in simple but accurate language, without assuming too much previous knowledge on the reader’s part..." -- *Karina Lutz, Home Energy*

"...the book is targeted at consumers, but the content is technically advanced, up-to-date, and well illustrated." --*Energy Design Update*

About the Author John Krigger is the founder of Saturn Resource Management, and a nationally recognized expert in the field of energy conservation for buildings. For over 20 years, he has presented seminars and produced publications on residential energy-

efficiency, building maintenance, and health and safety. John combines years of hands-on energy service experience with solid academic knowledge, and is the author of 5 books and numerous publications on energy efficiency. His publication Residential Energy is used as a training manual by some of the largest weatherization organizations in the country. John is a Certified Energy Manager of the Association of Energy Engineers.

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Within buildings energy saving can take place through refurbishment of existing property or by building new buildings which replace old buildings and/or which energy performance is better than that of existing buildings. Introduction. Buildingsâ€™ energy consumption in the EU represents about 30% of total EU energy consumption and between 25 and 40% in OECD countries (OECD, 2003).Â The recent EU Directive on Energy performance of Buildings (European Commission, 2002) applies to residential and tertiary sectors (offices and public buildings, etc.) and involves all aspects of energy efficiency in both new buildings and major renovation. Find many great new & used options and get the best deals for Residential Energy : Cost Savings and Comfort for Existing Buildings by John Krigger (Trade Paperback) at the best online prices at eBay! Free shipping for many products!Â Satisfaction Guaranteed! 100% Money Back Guarantee.Book is in typical used-Good Condition. Will show signs of wear to cover and/or pages. There may be underlining, highlighting, and or writing. May not include supplemental items (like discs, access codes, dust jacket, etc). Will be a good Reading copy. EU countries must set cost-optimal minimum energy performance requirements for new buildings, for existing buildings undergoing major renovation, and for the replacement or retrofit of building elements like heating and cooling systems, roofs and walls. all new buildings must be nearly zero-energy buildings (NZEB) from 31 December 2020. Since 31 December 2018, all new public buildings already need to be NZEB.Â Renovation of existing buildings can lead to significant energy savings, as it could reduce the EUâ€™s total energy consumption by 5-6% and lower CO2 emissions by about 5%. Investments in energy efficiency stimulates the economy, especially the construction industry, which generates about 9% of Europeâ€™s GDP and directly accounts for 18 million direct jobs. Greenhouse gas emissions associated with residential energy use account for a fifth of all emissions in the U.S. Retrofitting existing houses to achieve a two- to three-fold reduction in energy use is necessary if we are to achieve the emissions reductions scientists say are required for avoiding catastrophic climate change. Here's a look at how it can be done.Â The report also finds that, although new buildings present opportunities for the most energy savings per building, existing buildings represent a greater opportunity for energy savings overall. According to a 1998 study prepared for the U.S. Environmental Protection Agency, about 290,000 buildings are demolished every year, 245,000 of which are residential (about 0.2% of all residential buildings). Building management systems (BMS) or building automation systems (BAS) are the traditional solution to addressing the problem of energy waste. Companies such as Johnson Controls, Trane, and Honeywell make excellent, sophisticated BMS systems tailored for applications in very large buildings, typically focused on HVAC system management. Unfortunately, BMS is traditionally expensive, complex, and requires specialized installation, programming, and maintenance.Â The very high cost of traditional BMS means ROI is a challenge for all but the largest buildings; often it takes at least four years to recover the cost of a BMS installation.

Objective Significant increases in residential energy efficiency are required to meet emerging global and U.S. energy efficiency goals. The objective of this report is to provide an overview of the key residential efficiency technology opportunities and barriers that must be addressed to successfully develop cost-neutral net zero-energy homes (ZEHs).Â Ignoring these risk reduction requirements significantly increases costs, homeowner complaints, and building failures, and reduces chances of achieving near- and long-term energy savings. These three levels of residential technology maturity are summarized in more detail in Figure 2. 1. Meets minimum residential performance requirements. The Sixth Edition of Residential Energy has been updated the content to reflect the evolving best practices for the diagnosis, retrofit, maintenance, and energy management of residential buildings. Written with a "simple measures are the most effective" approach, have strived to improve this edition as readers strive to understand and improve the buildings with which they work. Features. New to This Edition.Â Instructor resource file download. The work is protected by local and international copyright laws and is provided solely for the use of instructors in teaching their courses and assessing student learning. Cancel. Signed out. "Residential Energy" is an extremely comprehensive manual to help any homeowner identify and fix all types of energy related problems, including creating a thermal barrier (insulation), when to replace windows or doors, or upgrades to heating and AC units. Covers virtually every area of the house. This book also provides excellent insight or review for the seasoned energy consultant or auditor.Â When translated into savings on fossil fuel consumption, these building practices would go a long way towards reducing greenhouse gases, and the USA reliance on foreign oil. We can do it! Read more.Â 5.0 out of 5 stars Worth reading if you deal with residential home comfort and energy savings, build quality. Reviewed in Canada on December 3, 2015. Verified Purchase. SMECO's programs help your existing building become more energy efficient. For more information about SMECOâ€™s Business Solutions, please call 1-866-235-6044 or e-mail business@smeco.coop. Instant Savings. Instant Savings for Business offers discounted pricing to SMECO commercial customers on qualifying energy-efficient products. Simply visit or call a participating local distributor to get instant discounts when you make energy-efficient purchases. Building Tune-up.Â SMECO offers financial incentives to help cover the cost for approved building operation and maintenance education courses. The incentives cover a percentage of training course(s) enrollment fees or tuition and are distributed upon course completion. Still, the energy saving potential in existing buildings is much larger than in new buildings, so energy saving in existing buildings should be stimulated, but to be successful the specific issues are to be taken into account consciously. Top. Partners and coordinator. List Map. EBM-consult BV. Netherlands. Ã–sterreichisches Forschungs- und PrÃ¼fzentrum Arsenal Ges.m.b.H.